## THE GLOBE-REPUBLICAN.

DODGE CITY, KANSAS, WEDNESDAY, DECEMBER 11, 1889.

FOURTEENTH YEAR. VOL. XIII, NO. 7

Small Profits and Quick Sales, and One Price to all, is the Motto of our Business. . . . .

THE

SENDS

To its thousands of friends and customers, and specially invites them to visit us during the next two weeks and inspect our mammoth display of

## MOLIDAY GOODS.

Never were goods so pretty; never were they so novel, and never were they so remarkably low in price as they are this season. We have presents suitable for every condition in life, whether Prince or peasant,something that would gladden the hearts of anyone. For what would Christmas be without giving a present to your nearest profitableness is established. From these and best friends. It is impossible in this small space to enumerate one-fifth of the thousand and one things we have on sale. So we say be sure and come.

Respectfully.

Strange & Summersby.

## IRRIGATION IN KANSAS!

A VAST EMPIRE AWAITING SCIEN-TIFIC CULTIVATION.

What Ditches Have Demonstrated at Dodge City .- What Gilbert Bros. Have Accomplished.

The Water Bearing Sands of the Arkansas Solve the Irrigation Problem.

Irrigation as an Investment. Cansas City Times.

Inquiry into the ties of irrigation is at this time particularly pertinent in view of the fact that the question of irrigation a large portion of our arid land is attracting the attention of all classes of people and has so forced itself into prominence that even congress has been obliged to send out a commissioner to ascertain what portion of the west can be irrigated, to recommend the best mode and help its successful accomplishment by providing a portion of the ways and means. It is probable that the government can do no more than to survey the entire region, and perhaps build storage reservoirs at certain available points in the Rocky mountain range and thus to husband a portion of the water now going to waste.

The rapid accumulation of capital, the low rate of interest obtainable upon bonds and mortgages, the feeling of insecurity which investors have in regard to railroad stocks and bonds also help to draw attention to the question of irrigation as an investment for capital wherein it may safely and certainly yield a larger return than ordinary mortgages, municipal bonds or the best class of railroad

The question of irrigation as an investment assumes great prominence from the fact that almost all of the public domain within the belt of what is denominated certain rainfall has been taken by actual settlers or is in the hands of those who are holding it at figures far in advance of the government price. This being true, those who hope to found homes in the west upon cheap lands are forced to consider the advisability and desirability of locating upon lands in the treeess sections of our country, where the rainfull is scant, uncertain and not copious enough for successful plant growing. Of this land there remains uncultivated the enormous amount of about 600,000,-000 acres, and Major Powell, a conservative geologist and explorer, considers the one-fifth, or 120,000,000 acres, of this has such topographical position that it can be successfully irrigated from actually determined and well known water sup-

As to quantity, this is an area larger than France, which supports nearly 40,-000,000 people, and as to quality this land has no superior anywhere in productiveness. This last fact has been fully demonstrated in localities in every state and territory that contains what is known as arid lands. Southern California, the valley of the desert in Utah, the valleys of the Platte in Colorado and the Arkansas in southwestern Kansas, all are open books wherein all men may read that wherever irrigation has been tried the soil yields in luxurious profusion and unapproachable variety.

So far but a small fraction of the land that can be reclaimed by irrigation has been transformed into farms, but in every locality, without exception, where land has been thoroughly irrigated it has risen in value until a well watered farm in any of the states or territories named is worth and readily brings from \$25 to \$100 per acre. The reason for this lies in the fact that every acre of land properly irrigated brings a sure crop and returns to the husbandman more than twice the yield of an acre of the best land of any state that is not irrigated. The only really sure agriculture in the world is that which can depend upon a water supply controlled by man, and then all that follows as its desirability or premises we come to the certain conclusion that these lands will be in demand for homes just as soon as it is certain that they will have a supply of water; and having water that they rise in value from nothing to the price of good lands in the older states at almost a jump, the conclusion is reached that the capital which supplies to the thirsty ground its moisture must and will have abundant reward. It is the only tax in the wide, wide world which will always be cheerfully paid.

the canals or ditches that have been constructed have been profitable to the investors, though as yet we have been only in the experimental stage, gathering experience and data useful to the fortune delvers in this direction. Conclusions based upon past experience in this ountry are that wherever there is a water supply of sufficient magnitude to irrigate a body of several thousand acres is eagerly sought for by farmers who pended upon.

wish to till those acres. In a majority of cases this water can be distributed by open canals, which can be built comparatively cheap and be inexpensively maintained. As an investment such building must be first class and provide a permanent, safe and reliable income. Unlike railroad bonds and stocks, there are no great running expenses, no appreciable wear and tear, no rust, no renewals and, better yet, no constant construction account and no disastrous competition, compelling cutting of rates and irregularity of income.

The only disputable point is the one of constant, certain water supply. Where, as in the case of the Bear lake and river irrigation company, who are building the longest canal yet attempted in this coun try, the supply comes from a mountain lake and streams whose waters have always been constant and abundant, there would seem to be no doubt of the desirability of the enterprise as an investment; and where, as seems to be now fully demonstrated, the water supply can be taken from the underflow of such great rivers as the Arkansas, the same conclusion must be drawn. A recent number of the Financier, an able and conservative financial journal of New York, in speaking upon this same subject says:

The capitalists of this country have not yet become conscious of the hundreds upon hundreds of millions to be obtained in dividends, upon, probably, next to the government itself, the most solid and secure form of investment ever offered a community; that of furnishing a water supply for irrigating and other purposes in the states of our great west. Probably the highest paying dividend stock in the world is that of a London corporation which hundreds of years ago was granted the privilege of furnishing London with part of its water supply. A share of this stock was recently put on the market in settlement of an estate and the amount of money it sold for was about half a million. The greatest amount of money in any one industry that has occupied the attention of Englishmen during the past tifteen years has been devoted to this purpose in India. In amount these investments are bundreds of millions and for security no better has been offered in the London market. In the Cape Colonies, South Africa, the same work is being carried on to a proportionate extent, and the experience of those employed is, no surer form of profit, with no risk whatever so far as has yet been discovered, has ever been offered the investing public.

One of these highly capitalized -companies in India obtains a government oncession through an uninhabitable, torid region, and builds a waterway from some source of supply that with its lateral arms extends thousands of miles through a territory which, because of the water thus furnished, quickly becomes a perfect garden, growing every kind of produce belonging to that clime.

These waterways are constructed in a ut-so no abs into the earth during the passage of the water is possible.

When one of these waterways is finish ed the stockholders have nothing further te do than receive enormous dividend that flow in upon them like water.

The region in India where these water ways are constructed have an almost torrid climate and the natural or usual rainfall is only about nine inches per annum. while on our plains the climate is temperate and the average rainfall is some thing like twenty-five inches, nearly five sixths of which falls between April 1 and September 1. Therefore the loss of water by evaporation is not nearly as large as in India, the soil does not require as frequent wetting or as much at a time and the cost of work necessary to our climate are but a tithe of what they are in India. If they pay so enormously in India, what will they not do in this country, where even the elements and the climate are in our favor?

The Financier continues:

Outsiders little realize the profits of one of these waterways that makes garden out of a desert.

The dividends that are paid are very great, for the waterways once made, be yond the interest upon the invested capital, it is pretty much all profit.

Millions of prosperous farms have been made fertile and profitable their owners within the past few years in this manner; in fact the farms had no previous existence, the land having been considered useless and untillable. When land is worthless because of droughts, and you supply that land with an abundance of water, it takes no mathematician to convince you of the probable re-In the history of irrigation in the west turns you can reap by doing such a ben-

And anyone immediately sees you enhance the contiguous property from a figure of little or no value to as many fold as the produce yields a reasonable percentage upon. Farmers all over the world agree that water fed to their farms when needed by means of irrigating canals yields far greater average returns than rainfalls upon the same land, even that water becomes at once valuable and where a rainfall may reasonably be de-

The Financier in its whole article has turous herdsmen began to raise cattle on lost a large percentage of its population the last paragraph. The farmer of even Ohio and New York could well afford to mand for beef east and in Europe, made by two years of poor crops, forcing valand would willingly pay \$1 an acre per the business for a term of nine years ex- ues of real estate away down and dispiryear for certain water at critical times in ceedingly profitable; yet the business of iting even those who three years ago saw the ripening of crops, and they could ranching enriched but a few; it did not in this region their Utopia. The fact is well afford to pay another dollar a year of Utah, Colorado and western Kansas plains with houses, schools, churches or gion should all at once fill up with peobandry. Seldom, if ever, will any por- great, but as long as the profits were crops where it had been universally contion of a crop be lost in the irrigable inopportune times. Again the Financier says:

It is unnecessary to enumerate all the sources of water supply that would feed such systems properly laid out, for they have always been described and to an active observer are readily appreciated when on the ground. If there is any one section more than another adapted to profitable investment in this direction, in our opinion it covers those lands adjacent to the Union Pacific railroad, its feeders and connections. Along the eight or more thousand miles of this system are numberless sources from which an inexhaustable supply of water nities. may be obtained, sufficient to irrigate millions upon millions of acres, provided there is no waste in transit. Still another

inducement to give particular attention to this district that covers the heart of the great west is the generous treatment support one bullock. The government of this road's management of all settlers experimental farm, near Garden City, be plowed ten or twelve inches deep and along its lines.

San Gabriel valley, California, in the midst of which Los Angeles is situated, as well as nearly all those thriving towns so celebrated for fruit and produce, is entirely dependent upon irrigation, for no rain falls in that vicinity during the ditches are of the rudest description, and, with their limited resources of increasing the water supply, Governor Swift of that state recently said in pubthe water supply is sufficient to permit any increase of inhabitants in the state. California is greatly limited in this respect unless new water resources are developed in addition to those already known. However this may be, the fact remains that those using the irrigation system in the San Gabriel valley say that its advantages over expectant rainfalls even in the best portions of the east are so great that a comparison between the two methods is not to be considered. Now they control their crops to a nicety

can alone give." The Times knows that all this is true and is further cognizant of the fact that the soil of western Kansas, much of Colorado and of Utah is almost incomparably better than that of California. The maket for products is nearer and greater and the transportation shorter.

What the Financier says of the policy of the Union Pacific will undoubtedly hold good for the Rock Island, the Santa Fe and the other railway systems that ings and wells at different points from stead, intending to mortgage or sell at thoroughly English manner-of solid penetrate the great plains. It is a matter of self-interest and this question of beyond prove that this water bearing Hundreds did this very thing. These of railway which comes to our city as the metropolis of the southwest. Irrigation would be a blessing to mankind, because when these now arid wastes blossom with thriving villages, cities, homes, farms, schools and churches they will be the abiding place of a people of intelligence and thrift and furnish to the people of the world a very considerable portion of all the fruits, grain and roots which bear cultivation in the temperate

Special Correspondence Kansas City Times

DODGE CITY, KAN., Nov. 21-The subject of the arid lands of the United States is one of prime importance now and not to be overlooked, because on what is now practically valuless soil is to settle in the not remote future at least as many people as there are in all the states east of the Mississippi river. The total arid lands are in round numbers 600,000,000 acres, about one-fifth of which can and have made the water supply a special locality. will be irrigated within the next ten study that a somewhat similar condition years. This immense body of land, once of affairs exists in the valleys of the Reirrigated and tilled, will become a more thickly settled farming community than the tillable area will immediately enlarge Iowa or Illinois, as the universal experi- to vast proportions and this now almost ence is that under irrigation a man tills barren waste will soon cut a large figure fewer acres than under natural rainfall, in the economy of this nation and the while it is also a fact that the climate of this region is remarkably healthful, putting new life and vigor into those who enjoy its bracing air and bright, clear members of the geological survey, all of

waste lies in western Nebraska, western gion as myself. Kansas and eastern Colorado. Taken in

irrigation. Thirty years ago it was held by scienof buffale fed upon these plains, adding the granary of this country. very little wealth to the nation. Seizing upon the idea of converting this almost

told no greater truth than is contained in the plains, and the growth of the nation during the past twelve months. The immediately after the war, with the de- boom of three years ago was followed build up popular communities with di- the boom was unwise and based on nothfor the delightful climate and clear skies versity of interests; it did not dot the ing really substantial. Just why this rewherein to gather and cure their hus- towns. The risks of the business were ple who looked for large and certain large they were eagerly taken. The busi- ceded the rainfall was too slight to be portion of the west by storms coming at ness, too, was cruel. Stock had no shel- depended upon to furnish moisture suffiter, no food except the dry grasses of the cient to certainly mature them surpasses plains, and often starved or miserably my comprehension. The people went wild perished of thirst and cold in the winter all at once and land rose at a bound from months. Gradually the settler forced his government value to ten and twenty dolway westward into the land of the ranch, lars per acre, most of it before a plow contracting the area of cheap pasturage. had turned a furrow of the virgin soil. The supply began to exceed the demand By some unknown process of reasoning for beef and what had been for a time men convinced themselves that the clia phenomenally profitable business be- mate had all at once changed in their came unprofitable.

"ranch" will be past and gone; but in its germinate and ripen the grain. place are to come happy homes for the Nature refuses to act thus kindly and masses and prosperity for great commu. for two years has failed to supply the

would seem to solve the problem.

in the valley of the river.

This reservoir developed the fact that the the state, crying wolf as they went. water is there in great quantity and bor- Another class came to get the home-Kinsley west to Garden City and even the first opportunity and then skip out. sand is hundreds of feet in depth with a people are the nomads of our plains. width well up in the tens of miles. Long They are restless, and every last one opshallow reservoirs which receive the timists just as long as the poles of their water from the bottom, present no en- prairie schooners are pointed westward. gineering difficulties that are at all ex- They are always bound for some new repensive or formidable; and as the aver- gion and are always going to get a quarage fall of the Arkansas is seven feet to ter section on which a town will spring the mile, it will readily be seen that the up or which will be underlaid with coal, water can be conveyed to the uplands by salt or gold from the proceeds of which comparatively short and inexpensive canals. The vastness of this deposit of fortune. These people carry their entire water, so to speak, dismissed from the possessions in their rickety wagons. and mind all danger of draining the supply; their principal property consists of five and, when, as it seems to me must be the or six sunburned children, a patient, but case, every farmer will have a windmill spiritless wife, who is quite ready to vote or other pump, and will store more or marriage a failure, and a pair of spavinless water for use at critical times and ed, scrawny horses or disreputable lookthe government supplements present ing mules. In my time I have talked supply by immense reservoirs in the mountains, there is going to be water enough available to make a farm out of when upon the move. If they pre-emptalmost every forty in southwestern Kan- ed a farm in the New Jerusalem, they

I am assured by scientific men who publican and Platte. If this be true then world.

In a subsequent letter I shall present the opinion of government engineers and whom I find are quite as hopeful and By far the largest available area of this sanguine of the future destiny of this re-

It almost seems childish to reassert the its entirety the best land of the arid re-fruitfulness or profitableness of irrigable gion lies in Kansas and Nebraska, and lands. The Mormons have taught manfor reasons which will be stated farther kind what can be accomplished in this on it has the best immediate prospect of direction east of the Rockies, while the San Gabriel valley in California attests the marvels which can be wrought in a tific men and common citizens that it few years upon land once growing sage was utterly impossible to raise a crop brush and cactus. As there is nothing west of the 100th meridian; that all land in the climate to discredit the perfect west of that and east of the Rocky moun- maturing of all crops, even maize, our tains must be pastoral. Immense herds now arid lands once watered will become

It would be rank folly to deny that southwestern Kansas is in a business limitless expanse into pasturage adven- way depressed and that the section has

favor and nature had become so kindly When the Indian territory shall have that water from the clouds would be been opened to settlement, the day of the plentiful to moisten the parched earth.

necessary rainfall. The inhabitants The natural grasses of the plains, or themselves, in true pioneer fashion, just those that are most succulent, grow in scratched the earth, never turning furbunches and patches; they do not make rows deep enough to give the best results. sod like the blue grass or red top; and in Where it is not possible to artificialranching it probably took fifteen acres to ly water the soil in southwestern Kansas, was started especially to experiment then be often worked while the crop is with grasses in the hope that some vari- growing. The farmer in charge of the ety would be discovered adapted to the government experimental farm, just dry soil of the plains and which would west of this place, assures me from his be succulent and form a sod. A French experience that most kind of crops suitgrass now being grown on the farm so able to this climate would be nearly cerfar seems to be the variety that will suit tain, year in and year out, provided that entire summer of six months. But their the existing conditions. The great plants deep plowing was employed, and the must, however, have water artificially fed soil often worked during the season of to the soil in order to develop their great growth. The average rainfall in this imvalue to the nation and world; and so mediate section is about twenty-one far as hundreds of thousands of acres of inches per annum, nearly five-sixths of lic: "It is an open question whether arid land in Kansas are concerned, oper- which falls between April 1 and Septemations now being conducted near here ber 1. The soil is wonderfully productive when moistened and in ability to That there was an immense area of raise a great diversification of crops, this water-bearing sand in the valley of and region has no superior. Successful farmcontiguous to the Arkansas has long ing here means hard work intelligently been known, but no individual or com- done and the man who comes to southpany seemed to have the courage to tap western Kansas to farm, thinking he can it, bring it to the surface and distribute grow rich and take it easy, is very much it to the parched soil. Recently the Gil- mistaken and had better remain away. bert Bros. of Dodge City, who have built It is unfortunate for this section, that some hundreds of miles of canal to take just about eight of every ten who first the overflow of the Arkansas, concluded settled here, were a hopeful, sanguine to build a new line of canal, at the head set of "ne'er-do-wells," who came to and produce results such as regularity of which they would construct or rather get a homestead, brought very little, if dig a reservoir, the supply for which any, money with them, and had none of would come from the water-bearing sand the resolute purpose of the early pioneers of our land. When they got their To resolve was, with them, to act, and homestead they expected their fortune they commenced late in the summer a was made and preferred to sit around in canal thirty-five miles long, with a reser- town, swap lies and talk politics, to rustvoir at its head 4,000 feet long, with an ling with the boe in their fields. They average width of fifty feet and a depth put in but little crop and it failed; their below the bed of the river of six feet. ambition all oozed out and they deserted

> they are certain to get their everlasting with hundreds of these people and have found they are never contented except would be quite ready to leave it in six months or a year, to search for a better

The land in the Arkansas valley is, as I said, exceedingly fertile when watered. It is the best soil for root and vine crops I ever saw and I have made personal examination in nearly every state and territory. Corn does well here, the average yield being from sixty to seventyfive bushels to the acre. Beets grow to twenty and even thirty pounds in weight. Squashes and pumpkins grow so large -I am almost tempted not to say it for fear of being accused of exaggerationbut fifty, sixty and seventy pounds are common weights, and one squash was shown at a fair that turned the scales at 182 pounds. Watermelops were plentiful this year that weighed sixty and seventy pounds. Alfalfa grows three crops a year, producing about six tons to the acre. Just now this is perhaps the most valuable and best paying crop known to the region. Sweet potatoes literally cover the ground when turned out of the rows and have been a drug on the market at 25 cents per bushel.

If I farmed in this section I should certainly greatly diversify, and among other things should raise broom corn. I never

[CONTINUED ON 4TH PAGE.]